

Data Path : U:\HPCHEM1\BNA G\DATA\BG012918\  
 Data File : BG032430.D  
 Acq On : 30 Jan 2018 00:58  
 Operator : SJ/JU  
 Sample : J1022-11  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jan 30 05:12:58 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG012918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 29 15:32:55 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.72  | 152  | 28401    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.60 | 136  | 118781   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.36 | 164  | 90636    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.09 | 188  | 249079   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.42 | 240  | 301811   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 26.10 | 264  | 317930   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.16  | 112  | 216415   | 153.05 | ng    | 0.00     |
| 7) Phenol-d6                | 7.84  | 99   | 249224   | 132.08 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.92  | 82   | 197678   | 103.95 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.83 | 330  | 270190   | 156.61 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.98 | 172  | 738201   | 96.80  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.63 | 244  | 1496770  | 106.23 | ng    | 0.00     |

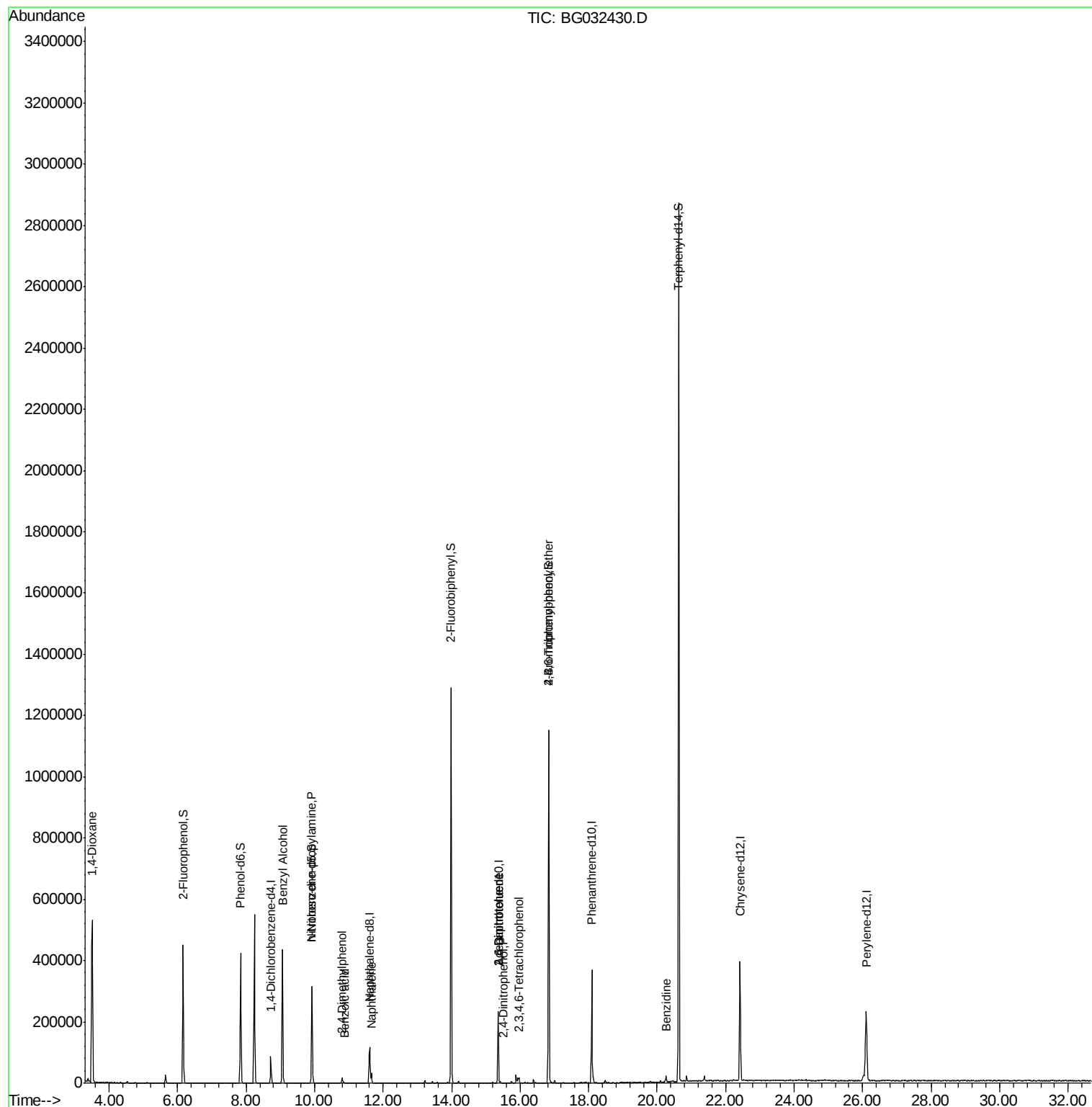
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.50  | 88   | 7331     | 15.410 | ng    | # 1    |
| 15) Benzyl Alcohol             | 9.05  | 79   | 3713     | 2.388  | ng    | # 58   |
| 19) n-Nitroso-di-n-propylamine | 9.92  | 70   | 28476    | 22.761 | ng    | # 77   |
| 27) 2,4-Dimethylphenol         | 10.80 | 122  | 7618     | 4.775  | ng    | # 1    |
| 31) Naphthalene                | 11.66 | 128  | 30129    | 5.193  | ng    | # 96   |
| 32) Benzoic acid               | 10.88 | 122  | 236      | 7.452  | ng    | # 63   |
| 50) 2,6-Dinitrotoluene         | 15.35 | 165  | 12091    | 6.893  | ng    | # 20   |
| 53) 2,4-Dinitrophenol          | 15.50 | 184  | 53       | 4.150  | ng    | # 1    |
| 56) 2,4-Dinitrotoluene         | 15.35 | 165  | 12091    | 4.841  | ng    | # 18   |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.97 | 232  | 6390     | 2.410  | ng    | # 74   |
| 66) 4-Bromophenyl-phenylether  | 16.83 | 248  | 21300    | 5.772  | ng    | # 1    |
| 76) Benzidine                  | 20.26 | 184  | 14573    | 2.459  | ng    | # 95   |

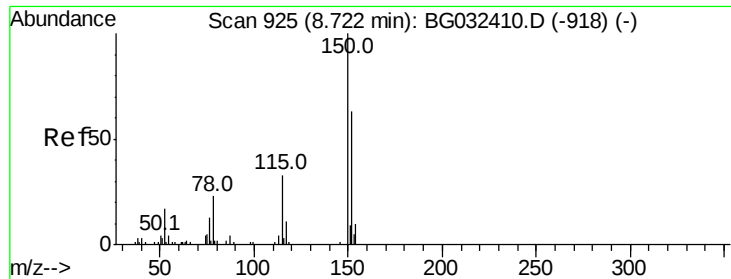
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : U:\HPCHEM1\BNA G\DATA\BG012918\  
Data File : BG032430.D  
Acq On : 30 Jan 2018 00:58  
Operator : SJ/JU  
Sample : J1022-11  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Jan 30 05:12:58 2018  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG012918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 29 15:32:55 2018  
Response via : Initial Calibration



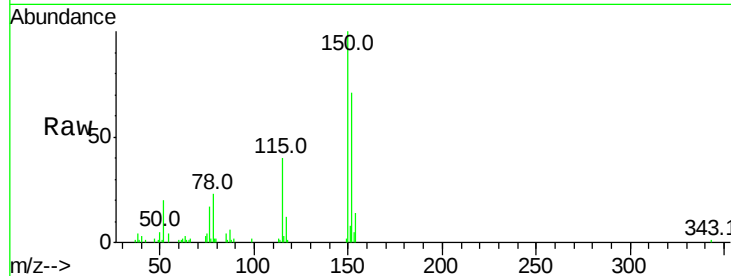


#1

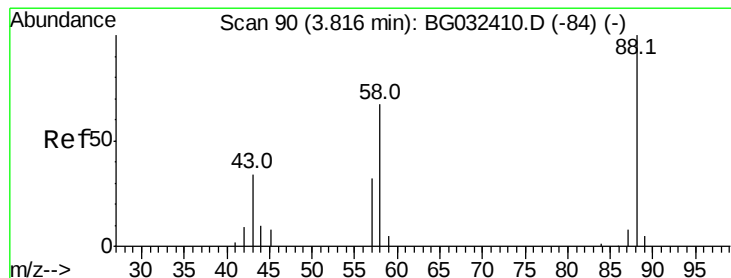
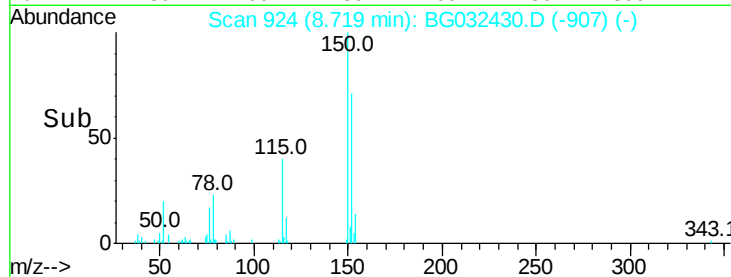
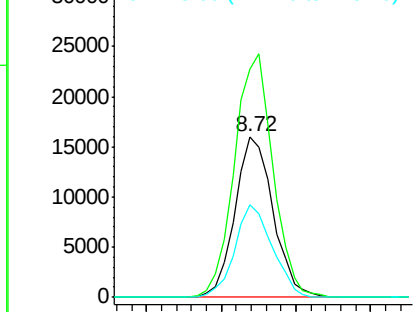
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.72 min Scan# 924  
Delta R.T. -0.00 min  
Lab File: BG032430.D  
Acq: 30 Jan 2018 00:58

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 28401  
Ion Ratio Lower Upper  
152 100  
150 141.7 126.6 189.8  
115 57.3 53.0 79.4



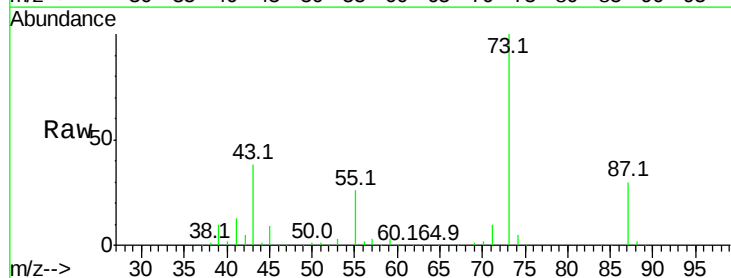
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



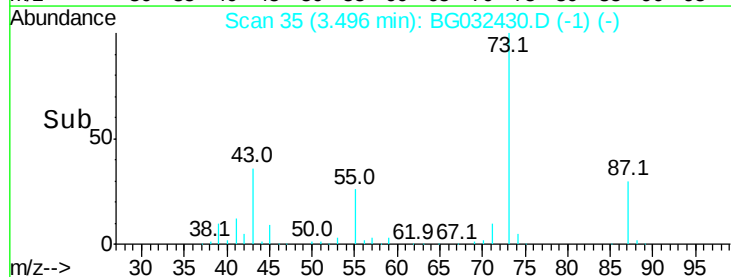
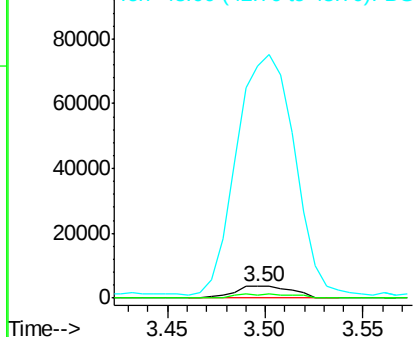
#2

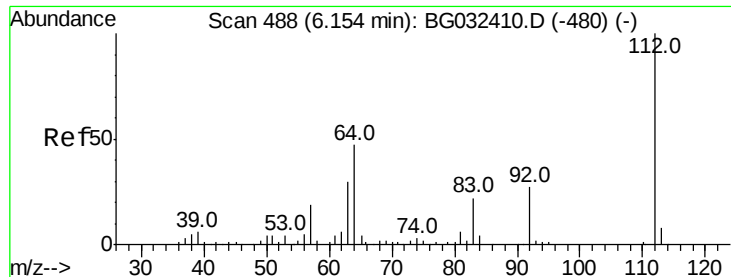
1,4-Dioxane  
Concen: 15.410 ng  
RT: 3.50 min Scan# 35  
Delta R.T. -0.32 min  
Lab File: BG032430.D  
Acq: 30 Jan 2018 00:58

Tgt Ion: 88 Resp: 7331  
Ion Ratio Lower Upper  
88 100  
58 38.1 79.6 119.4#  
43 2077.3 27.4 41.0#



Abundance Ion 88.00 (87.70 to 88.70): BGC  
Ion 58.00 (57.70 to 58.70): BGC  
Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 153.052 ng

RT: 6.16 min Scan# 488

Delta R.T. 0.00 min

Lab File: BG032430.D

Acq: 30 Jan 2018 00:58

Instrument :

BNA\_G

ClientSampleId :

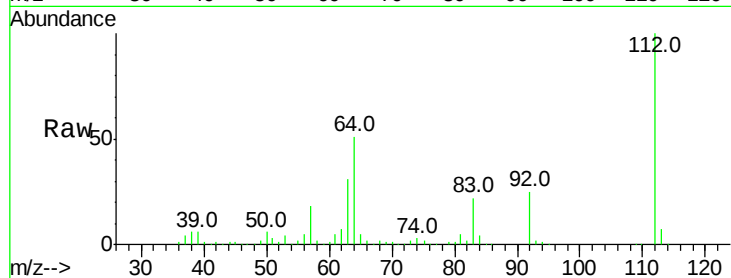
Tot Ion:112 Resp: 216415

Ion Ratio Lower Upper

112 100

64 50.9 56.3 84.5#

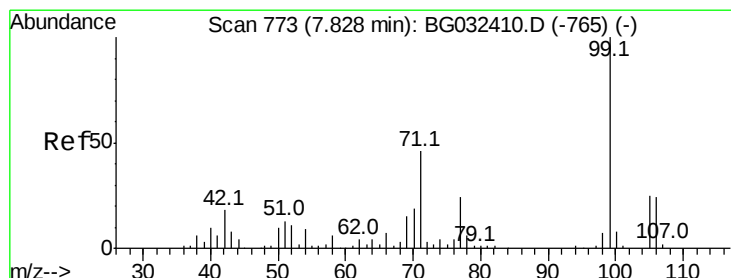
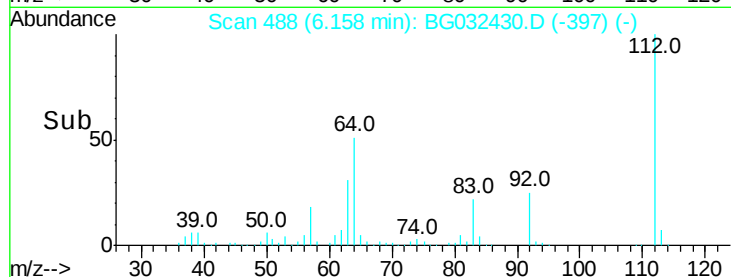
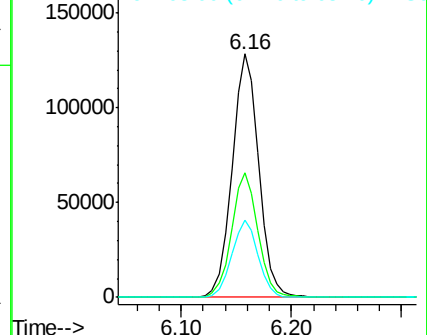
63 31.5 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#7

Phenol-d6

Concen: 132.084 ng

RT: 7.84 min Scan# 774

Delta R.T. 0.01 min

Lab File: BG032430.D

Acq: 30 Jan 2018 00:58

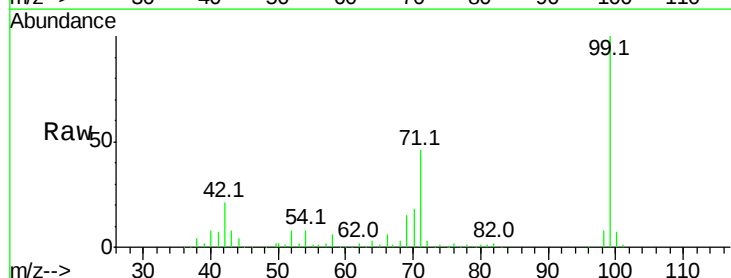
Tgt Ion: 99 Resp: 249224

Ion Ratio Lower Upper

99 100

42 20.5 14.1 21.1

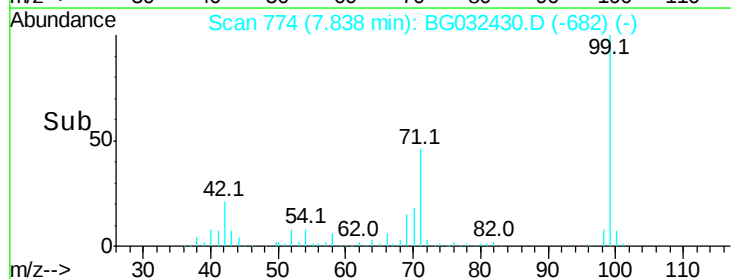
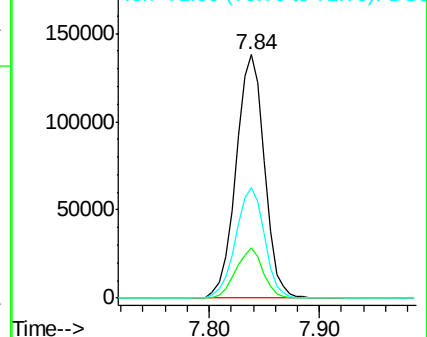
71 45.6 26.1 39.1#

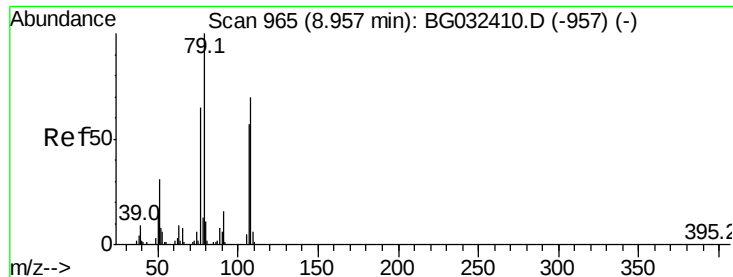


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC





#15

Benzyl Alcohol

Concen: 2.388 ng

RT: 9.05 min Scan# 981

Delta R.T. 0.10 min

Lab File: BG032430.D

Acq: 30 Jan 2018 00:58

Instrument :

BNA\_G

ClientSampleId :

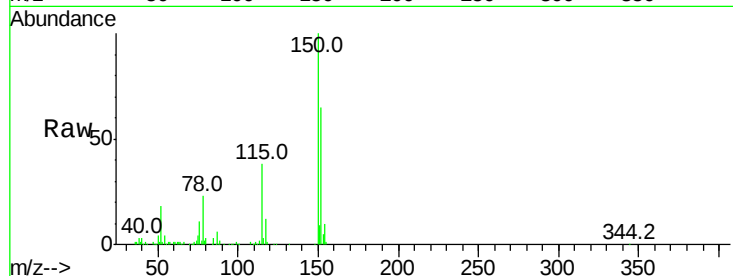
Tot Ion: 79 Resp: 3713

Ion Ratio Lower Upper

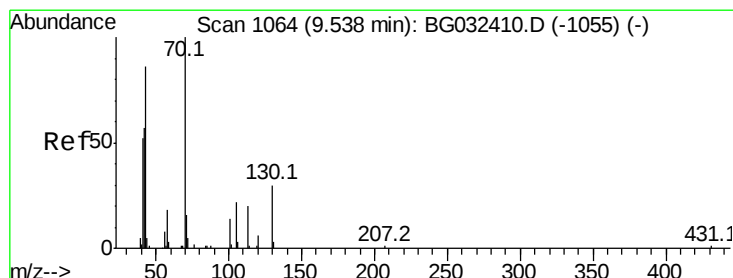
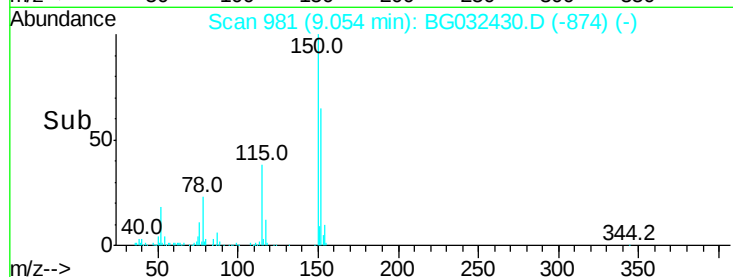
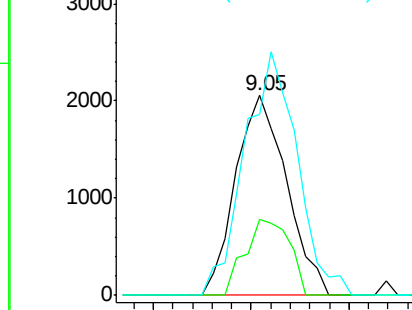
79 100

108 38.2 57.2 85.8#

77 90.5 46.1 69.1#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 22.761 ng

RT: 9.92 min Scan# 1128

Delta R.T. 0.38 min

Lab File: BG032430.D

Acq: 30 Jan 2018 00:58

Tgt Ion: 70 Resp: 28476

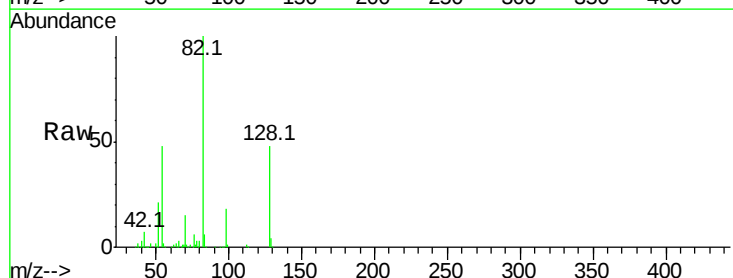
Ion Ratio Lower Upper

70 100

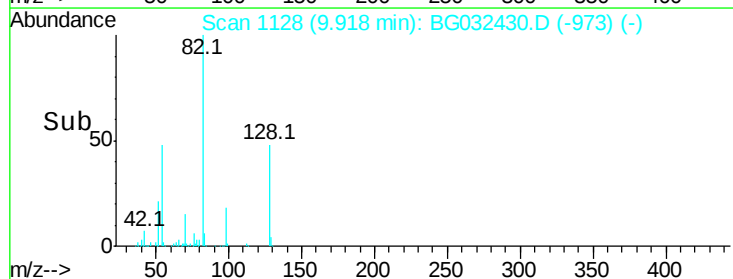
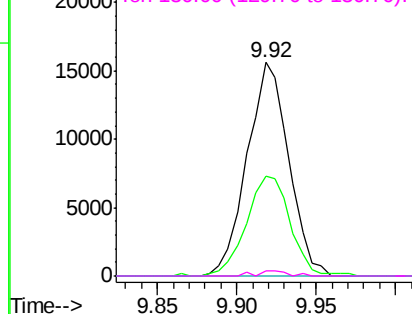
42 46.9 49.1 73.7#

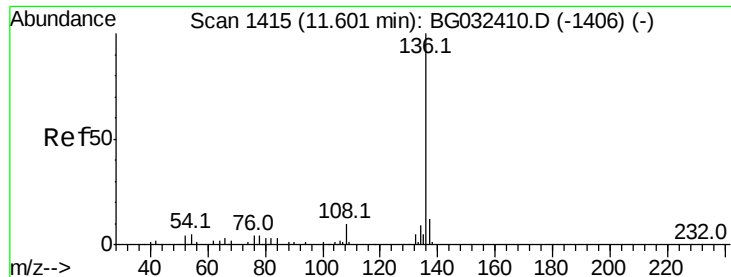
101 0.0 8.5 12.7#

130 2.2 13.4 20.0#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

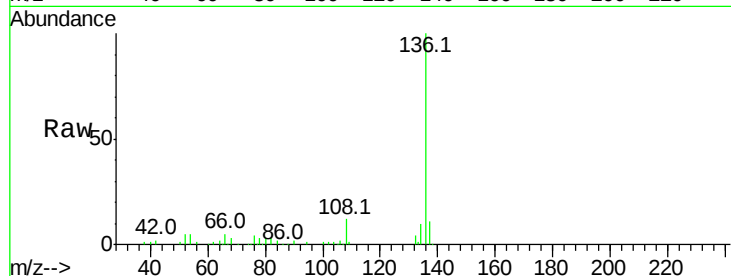




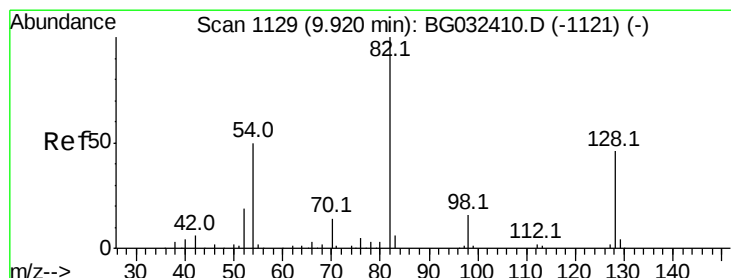
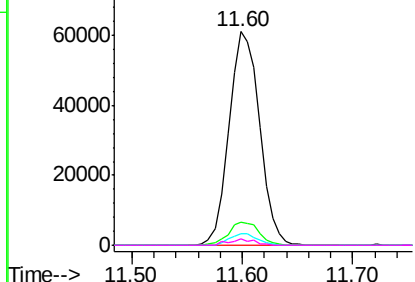
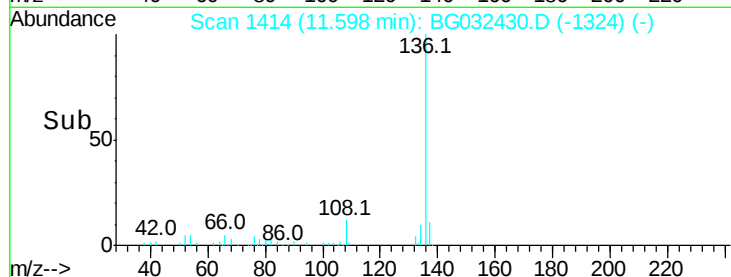
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.60 min Scan# 1414  
Delta R.T. -0.00 min  
Lab File: BG032430.D  
Acq: 30 Jan 2018 00:58

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:136 Resp: 118781  
Ion Ratio Lower Upper  
136 100  
137 10.8 9.2 13.8  
54 5.3 10.3 15.5#  
68 3.1 4.5 6.7#

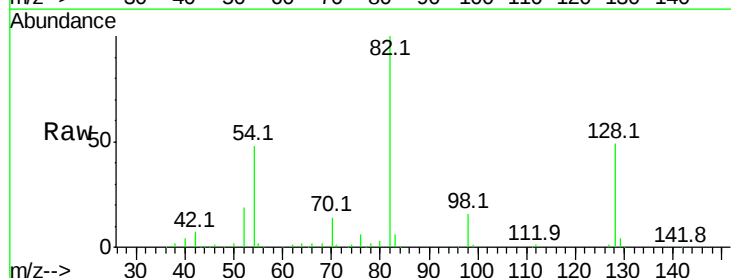


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

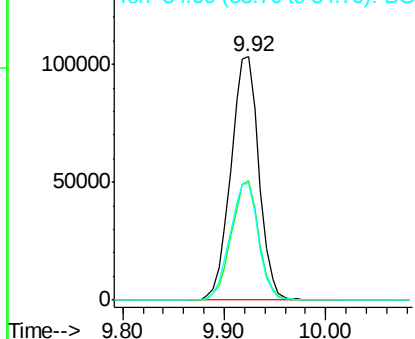
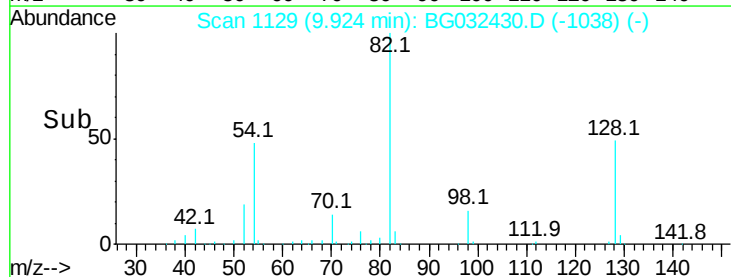


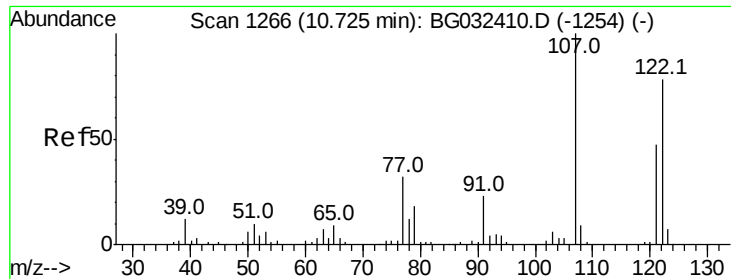
#23  
Nitrobenzene-d5  
Concen: 103.948 ng  
RT: 9.92 min Scan# 1129  
Delta R.T. 0.00 min  
Lab File: BG032430.D  
Acq: 30 Jan 2018 00:58

Tgt Ion: 82 Resp: 197678  
Ion Ratio Lower Upper  
82 100  
128 49.2 29.7 44.5#  
54 48.0 43.1 64.7



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BGC

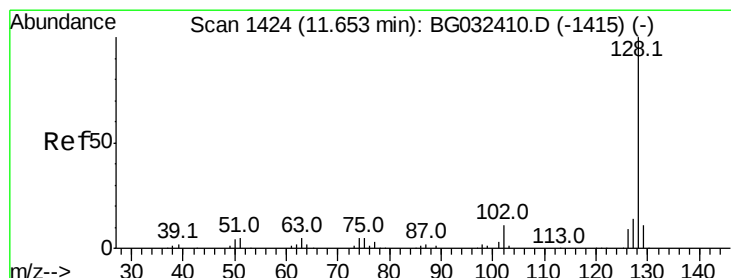
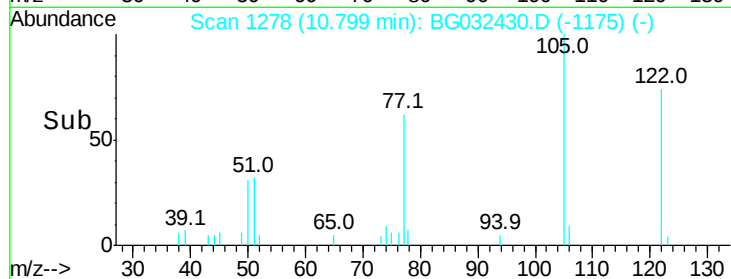
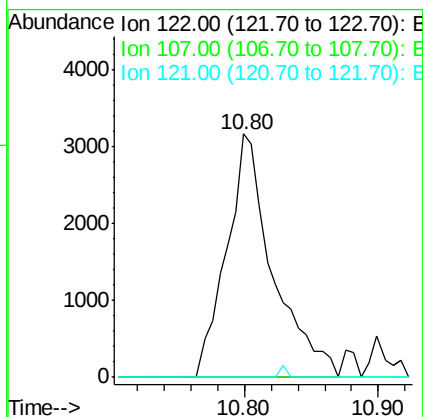
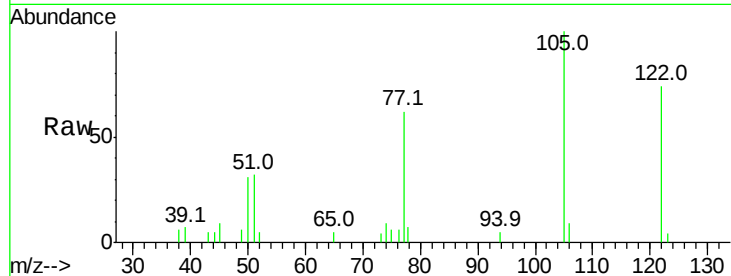




#27  
 2,4-Dimethylphenol  
 Concen: 4.775 ng  
 RT: 10.80 min Scan# 1278  
 Delta R.T. 0.07 min  
 Lab File: BG032430.D  
 Acq: 30 Jan 2018 00:58

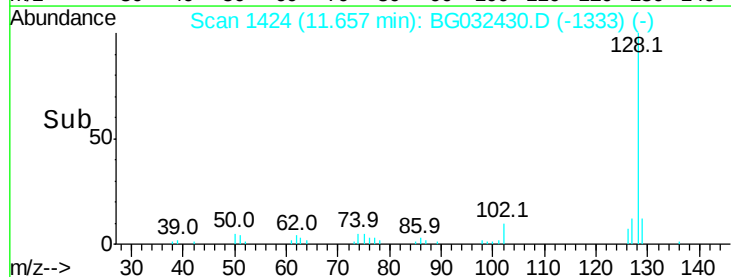
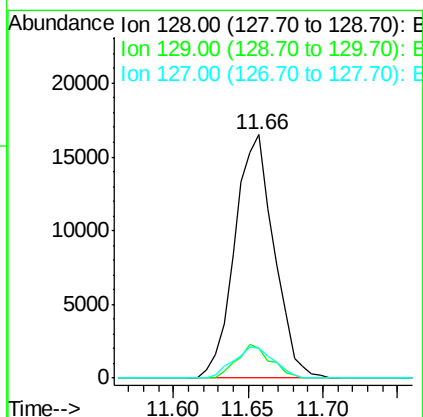
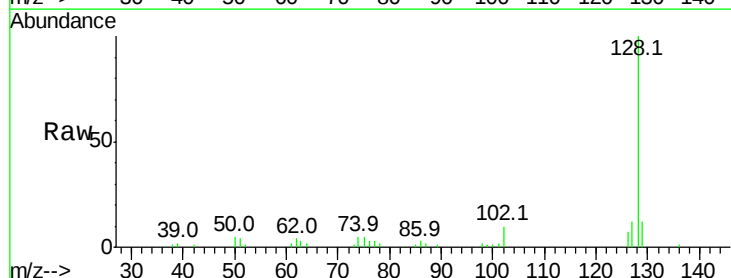
Instrument :  
 BNA\_G  
 ClientSampled :

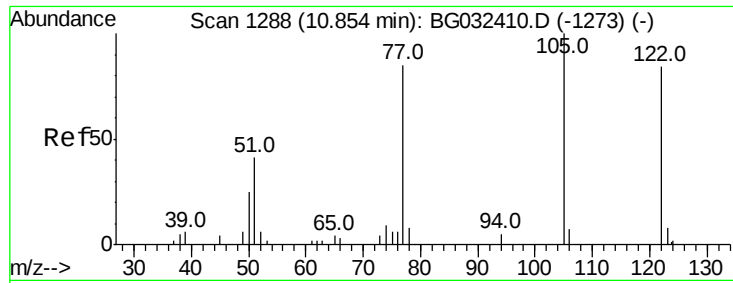
Tot Ion:122 Resp: 7618  
 Ion Ratio Lower Upper  
 122 100  
 107 0.0 100.2 150.2#  
 121 0.0 44.4 66.6#



#31  
 Naphthalene  
 Concen: 5.193 ng  
 RT: 11.66 min Scan# 1424  
 Delta R.T. 0.00 min  
 Lab File: BG032430.D  
 Acq: 30 Jan 2018 00:58

Tgt Ion:128 Resp: 30129  
 Ion Ratio Lower Upper  
 128 100  
 129 12.0 8.6 12.8  
 127 12.5 11.6 17.4

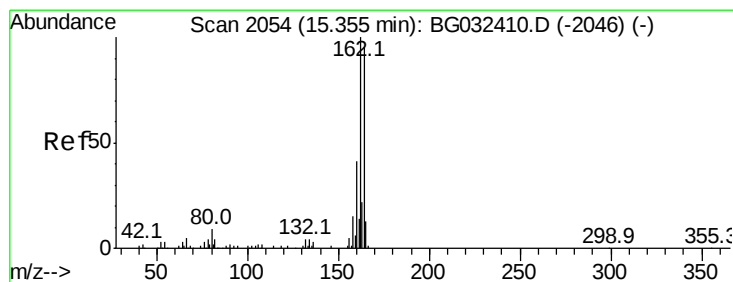
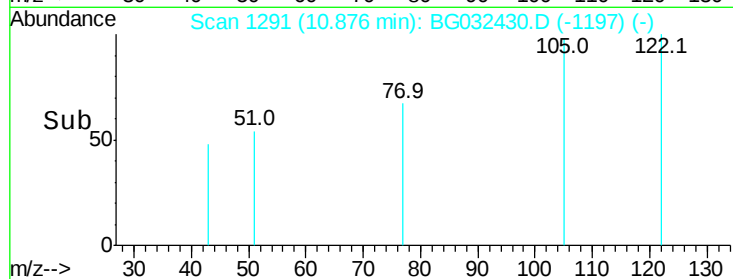
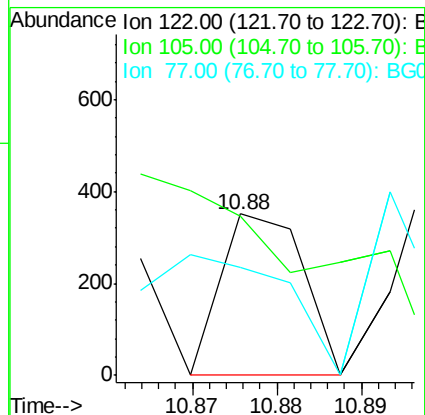
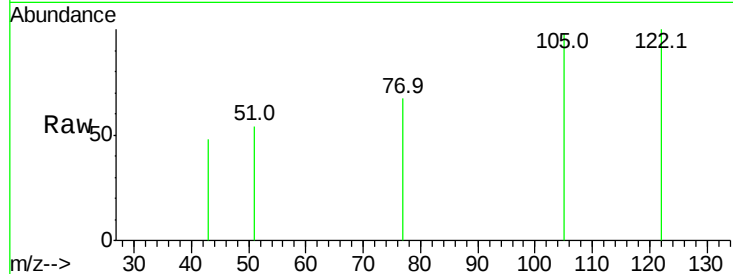




#32  
Benzoic acid  
Concen: 7.452 ng  
RT: 10.88 min Scan# 1291  
Delta R.T. 0.02 min  
Lab File: BG032430.D  
Acq: 30 Jan 2018 00:58

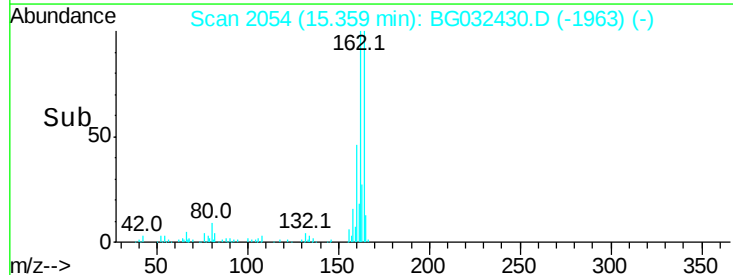
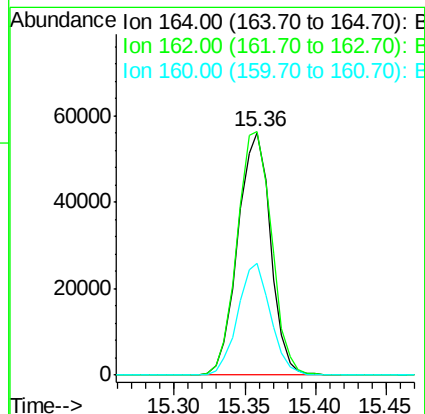
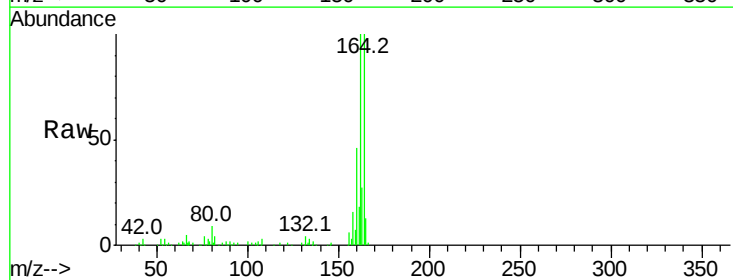
Instrument :  
BNA\_G  
ClientSampled :

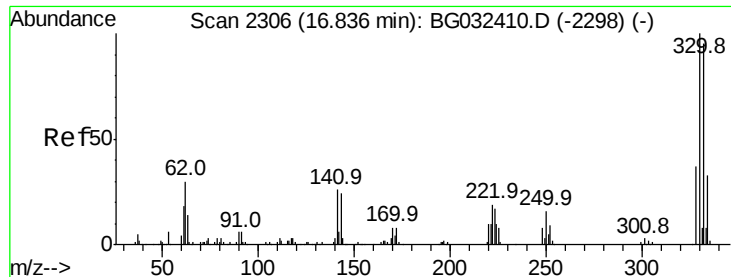
Tot Ion:122 Resp: 236  
Ion Ratio Lower Upper  
122 100  
105 98.3 123.5 163.5#  
77 67.0 85.7 125.7#



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.36 min Scan# 2054  
Delta R.T. 0.00 min  
Lab File: BG032430.D  
Acq: 30 Jan 2018 00:58

Tgt Ion:164 Resp: 90636  
Ion Ratio Lower Upper  
164 100  
162 100.4 78.8 118.2  
160 46.2 35.4 53.0





#41

2,4,6-Tribromophenol

Concen: 156.608 ng

RT: 16.83 min Scan# 2305

Delta R.T. -0.00 min

Lab File: BG032430.D

Acq: 30 Jan 2018 00:58

Instrument :

BNA\_G

ClientSampleId :

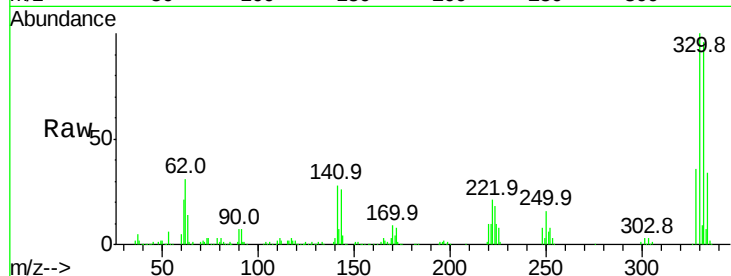
Tot Ion:330 Resp: 270190

Ion Ratio Lower Upper

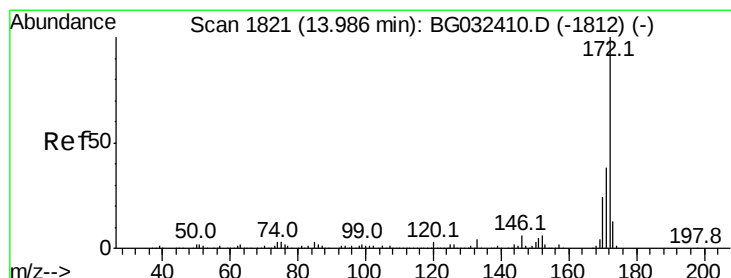
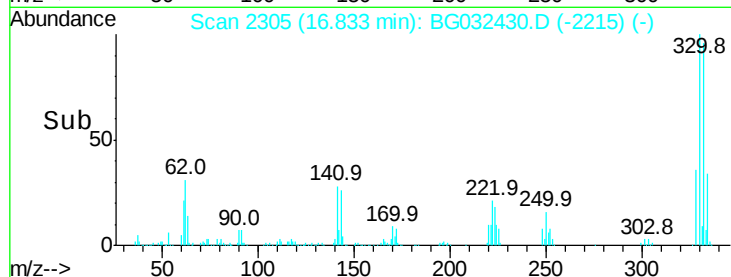
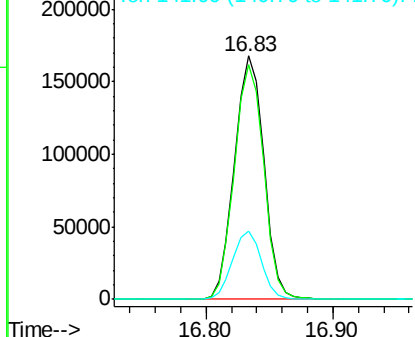
330 100

332 96.3 77.0 115.6

141 27.9 25.2 37.8



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 96.805 ng

RT: 13.98 min Scan# 1820

Delta R.T. -0.00 min

Lab File: BG032430.D

Acq: 30 Jan 2018 00:58

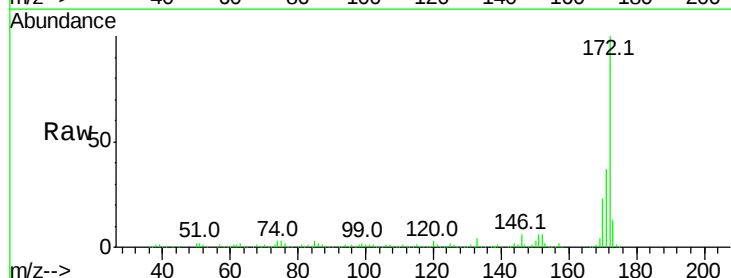
Tgt Ion:172 Resp: 738201

Ion Ratio Lower Upper

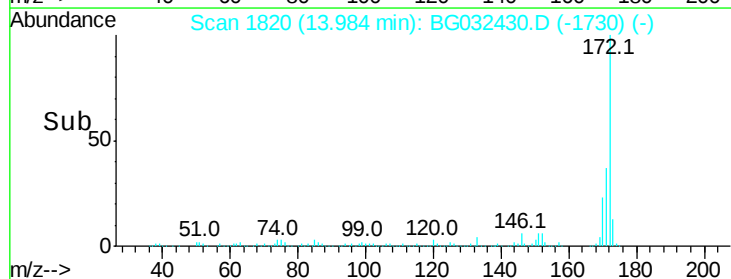
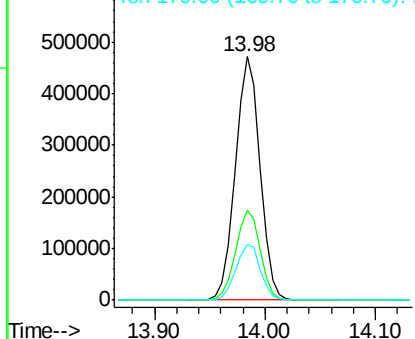
172 100

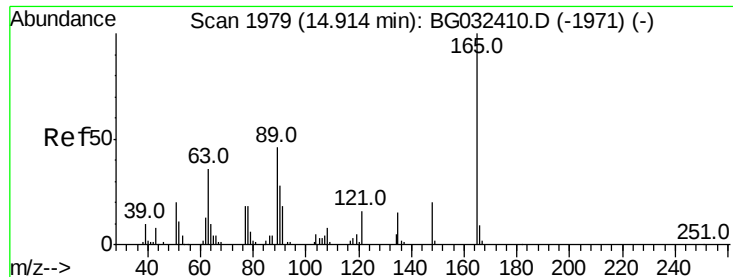
171 37.1 30.0 45.0

170 23.0 19.5 29.3



Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

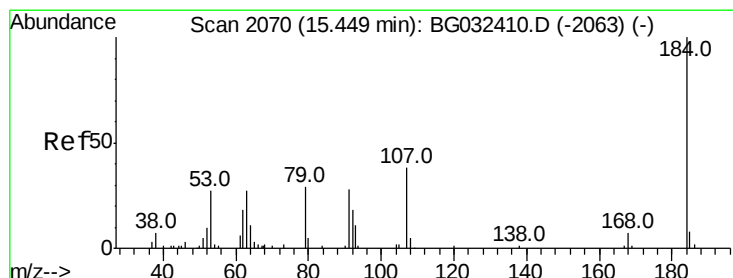
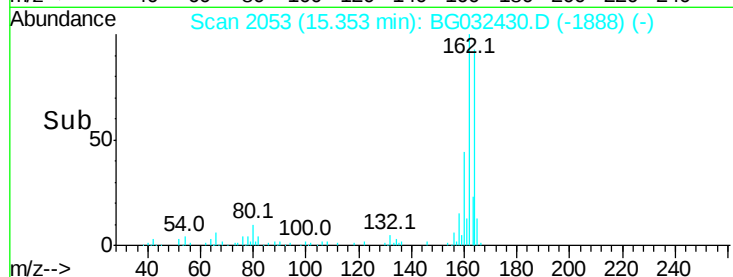
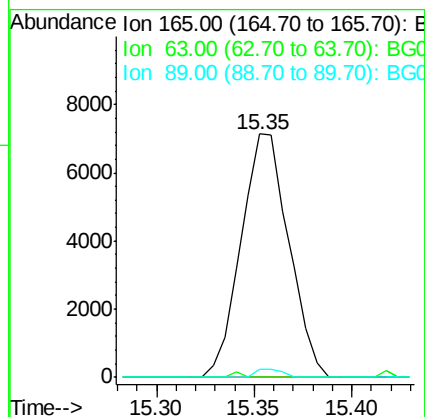
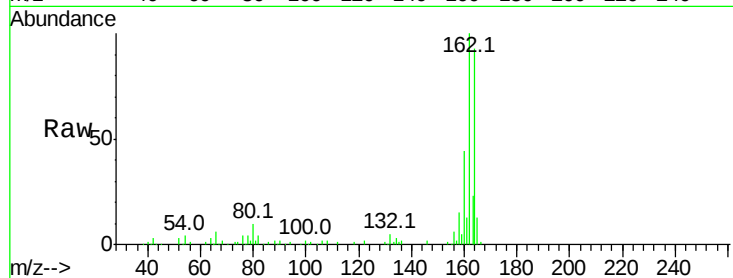




#50  
 2,6-Dinitrotoluene  
 Concen: 6.893 ng  
 RT: 15.35 min Scan# 2053  
 Delta R.T. 0.44 min  
 Lab File: BG032430.D  
 Acq: 30 Jan 2018 00:58

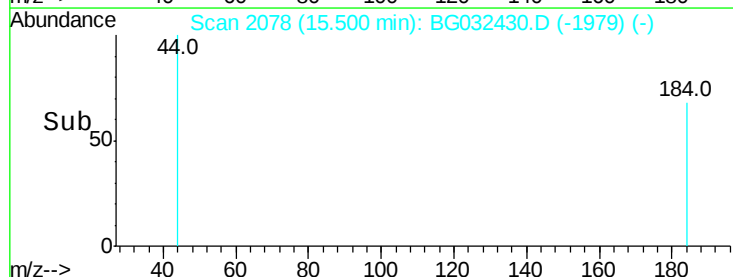
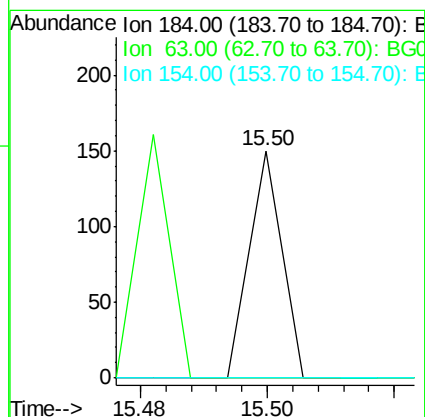
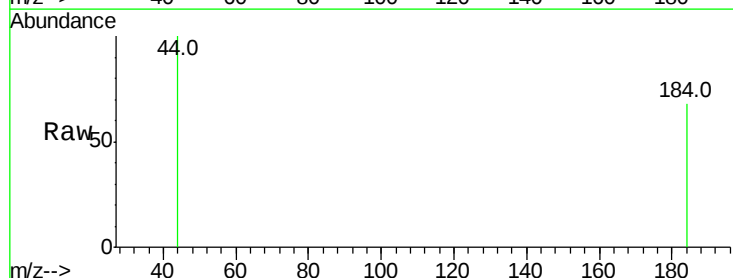
Instrument :  
 BNA\_G  
 ClientSampleId :

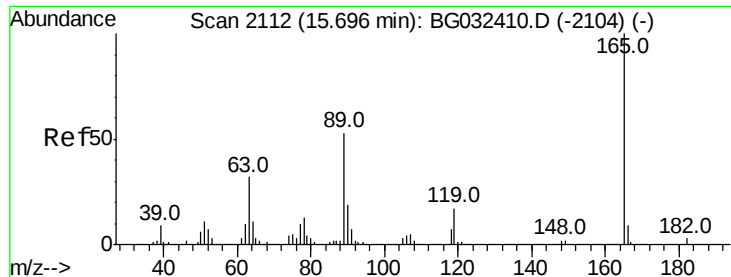
Tot Ion:165 Resp: 12091  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 52.7 79.1#  
 89 3.2 49.2 73.8#



#53  
 2,4-Dinitrophenol  
 Concen: 4.150 ng  
 RT: 15.50 min Scan# 2078  
 Delta R.T. 0.05 min  
 Lab File: BG032430.D  
 Acq: 30 Jan 2018 00:58

Tgt Ion:184 Resp: 53  
 Ion Ratio Lower Upper  
 184 100  
 63 0.0 59.8 89.8#  
 154 0.0 101.8 152.8#

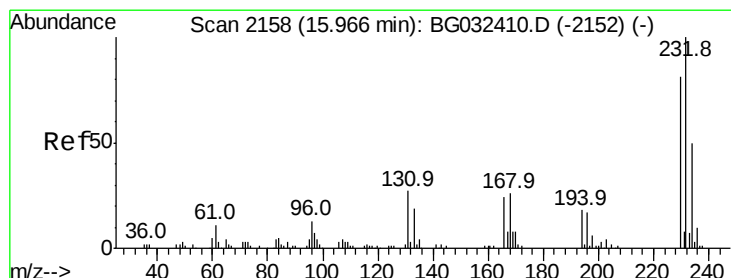
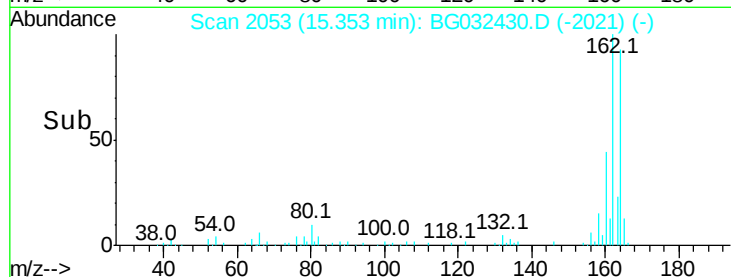
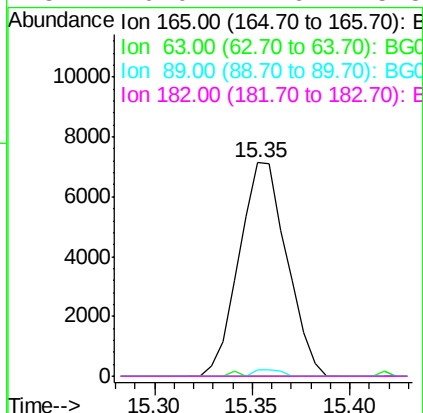
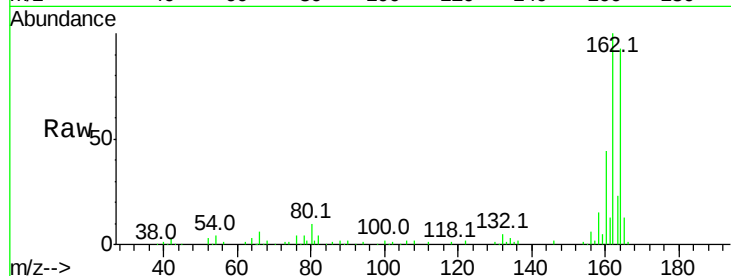




#56  
 2,4-Dinitrotoluene  
 Concen: 4.841 ng  
 RT: 15.35 min Scan# 2053  
 Delta R.T. -0.34 min  
 Lab File: BG032430.D  
 Acq: 30 Jan 2018 00:58

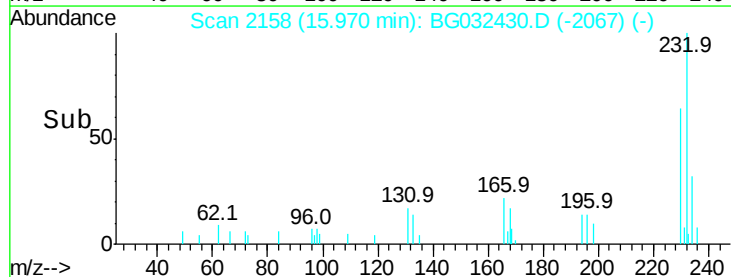
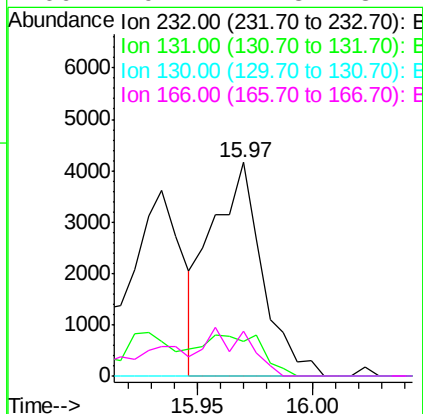
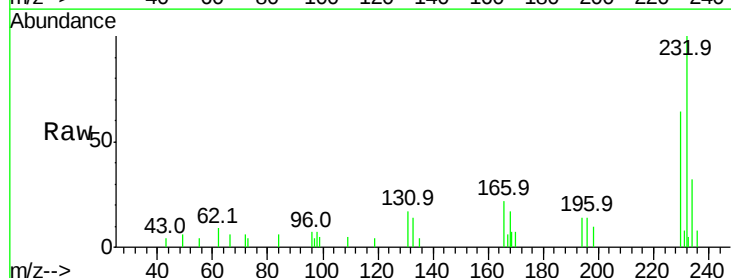
Instrument :  
 BNA\_G  
 ClientSampled :

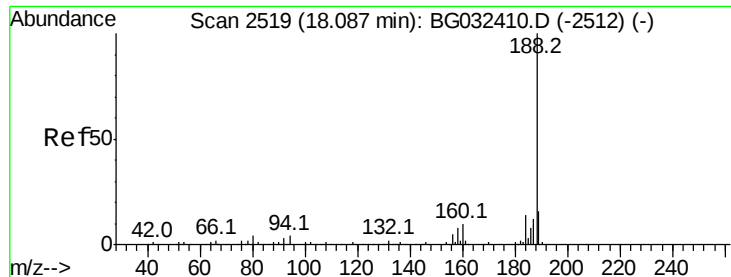
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 0.0   | 42.0  | 63.0#  |
| 89      | 3.2   | 66.9  | 100.3# |
| 182     | 0.0   | 2.6   | 3.8#   |



#58  
 2,3,4,6-Tetrachlorophenol  
 Concen: 2.410 ng  
 RT: 15.97 min Scan# 2158  
 Delta R.T. 0.00 min  
 Lab File: BG032430.D  
 Acq: 30 Jan 2018 00:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 232     | 100   |       |       |
| 131     | 22.3  | 33.5  | 50.3# |
| 130     | 0.0   | 2.2   | 3.2#  |
| 166     | 19.1  | 24.8  | 37.2# |

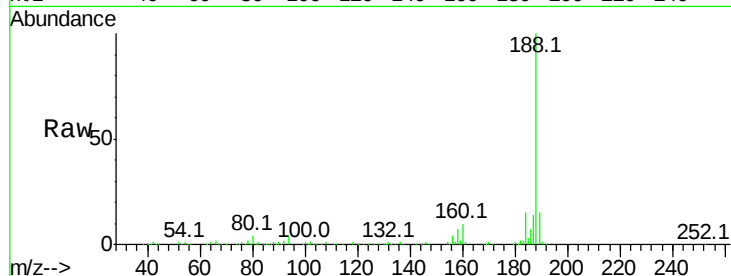




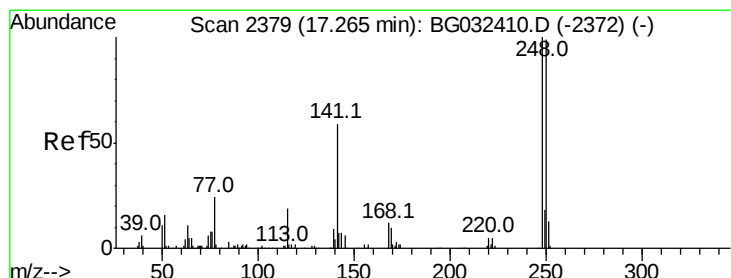
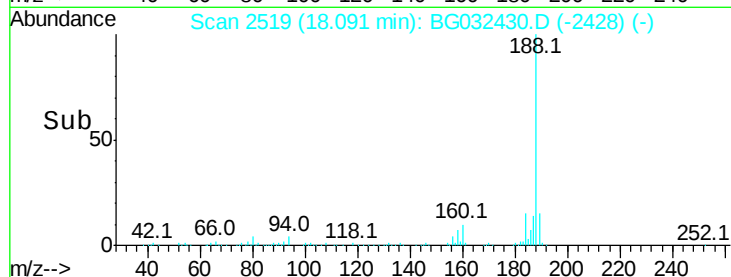
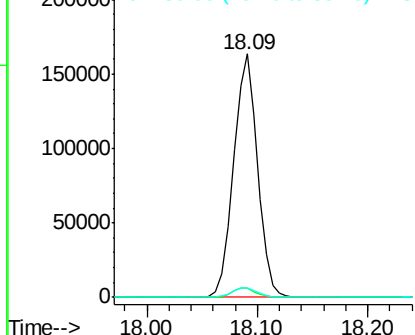
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.09 min Scan# 2519  
Delta R.T. 0.00 min  
Lab File: BG032430.D  
Acq: 30 Jan 2018 00:58

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:188 Resp: 249079  
Ion Ratio Lower Upper  
188 100  
94 3.6 6.9 10.3#  
80 3.9 7.7 11.5#

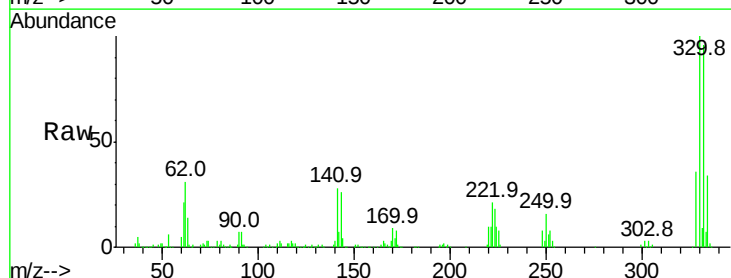


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGO  
Ion 80.00 (79.70 to 80.70): BGO

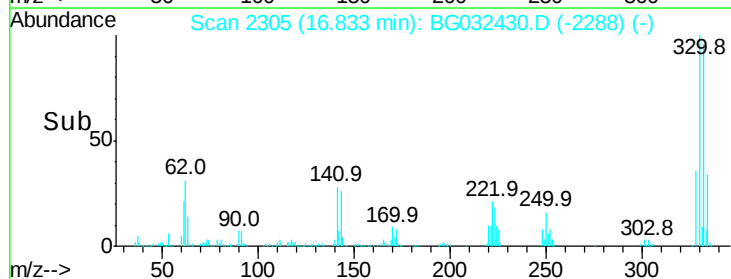
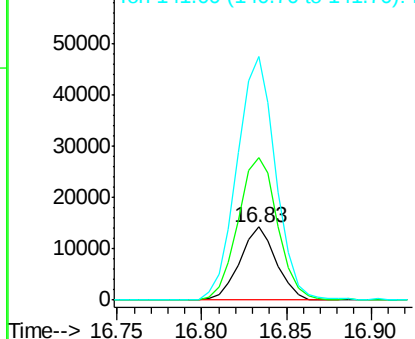


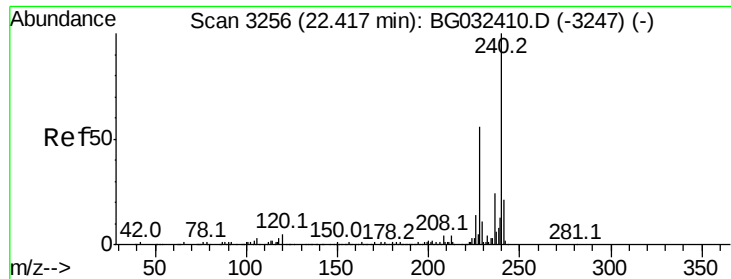
#66  
4-Bromophenyl-phenylether  
Concen: 5.772 ng  
RT: 16.83 min Scan# 2305  
Delta R.T. -0.43 min  
Lab File: BG032430.D  
Acq: 30 Jan 2018 00:58

Tgt Ion:248 Resp: 21300  
Ion Ratio Lower Upper  
248 100  
250 194.9 77.1 115.7#  
141 333.7 50.8 76.2#



Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.42 min Scan# 3256

Delta R.T. 0.00 min

Lab File: BG032430.D

Acq: 30 Jan 2018 00:58

Instrument :

BNA\_G

ClientSampleId :

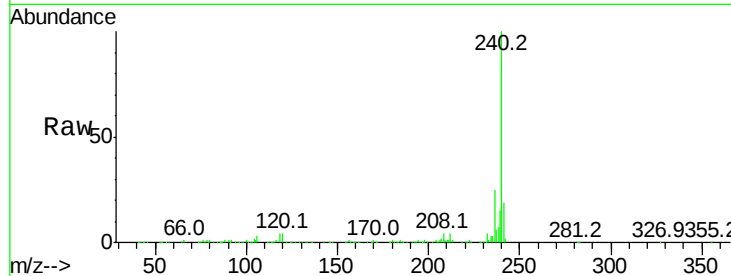
Tot Ion:240 Resp: 301811

Ion Ratio Lower Upper

240 100

120 4.0 6.8 10.2#

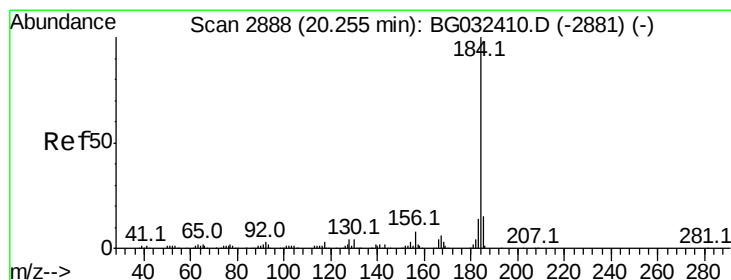
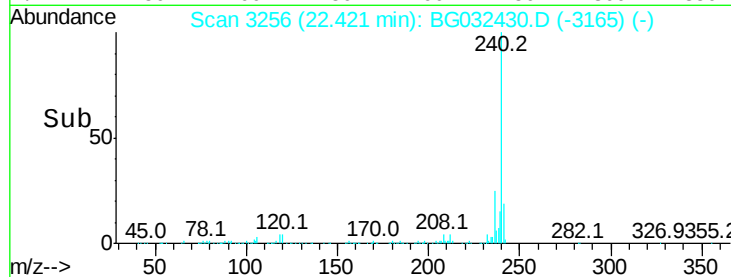
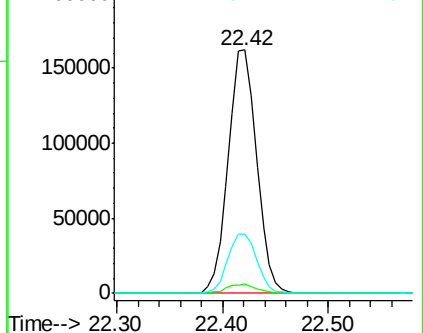
236 24.5 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 2.459 ng

RT: 20.26 min Scan# 2888

Delta R.T. 0.00 min

Lab File: BG032430.D

Acq: 30 Jan 2018 00:58

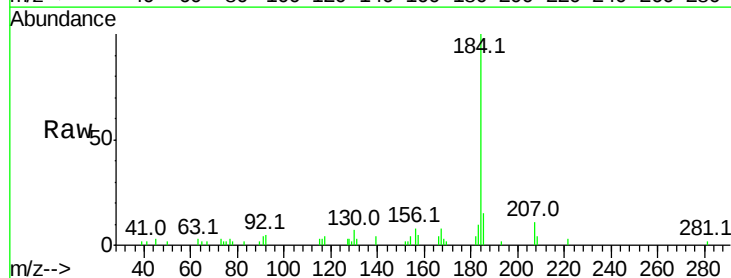
Tgt Ion:184 Resp: 14573

Ion Ratio Lower Upper

184 100

185 14.6 11.1 16.7

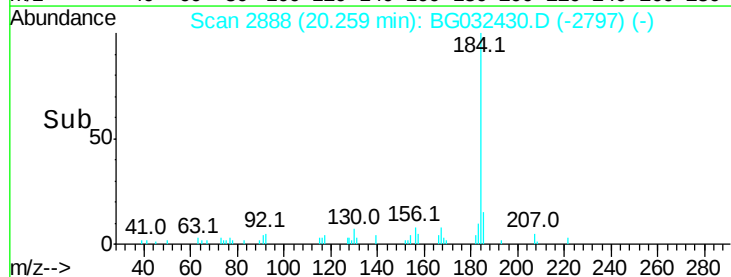
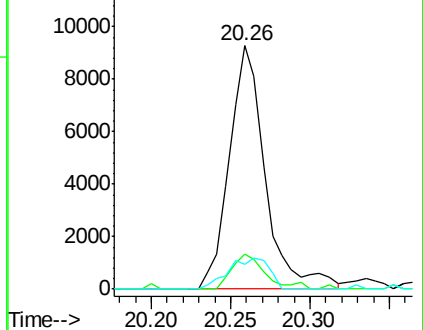
183 10.2 10.6 16.0#

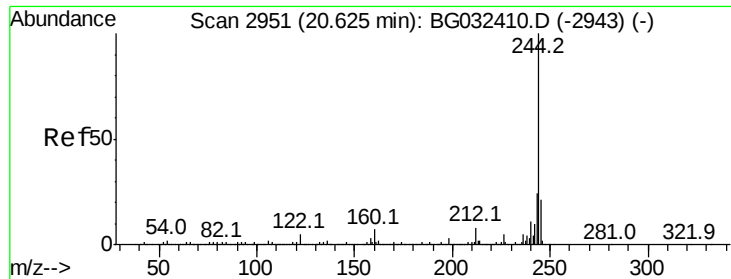


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 106.232 ng

RT: 20.63 min Scan# 2951

Delta R.T. 0.00 min

Lab File: BG032430.D

Acq: 30 Jan 2018 00:58

Instrument :

BNA\_G

ClientSampled :

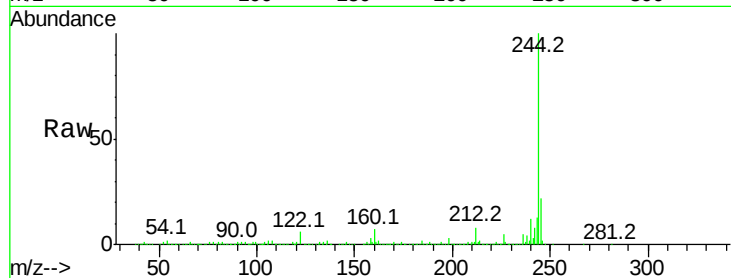
Tot Ion:244 Resp: 1496770

Ion Ratio Lower Upper

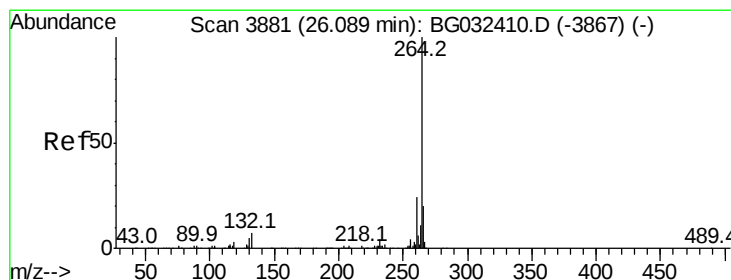
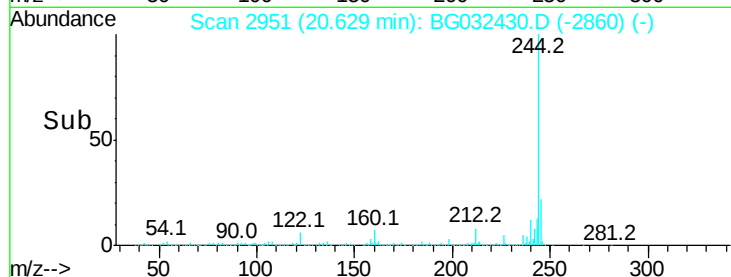
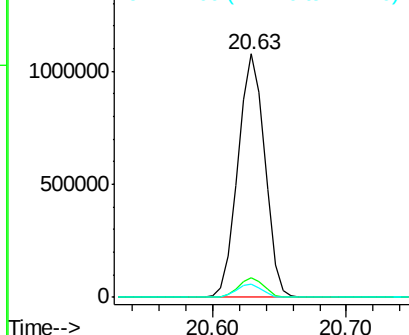
244 100

212 7.9 5.8 8.8

122 5.7 7.0 10.4#



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 26.10 min Scan# 3882

Delta R.T. 0.01 min

Lab File: BG032430.D

Acq: 30 Jan 2018 00:58

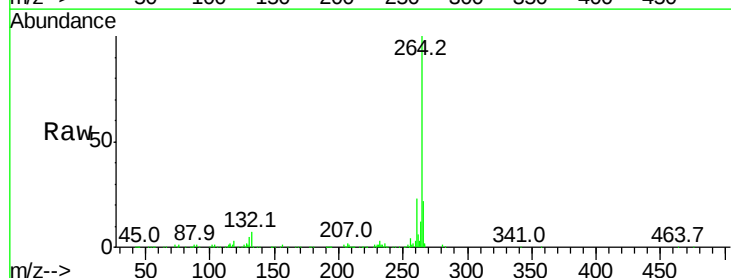
Tgt Ion:264 Resp: 317930

Ion Ratio Lower Upper

264 100

260 23.4 17.4 26.0

265 22.1 17.7 26.5



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

